

IN THE CLAIMS

The following claim set replaces all prior versions, and listings, of claims in the application:

Claim 1 (Canceled).

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2. (Currently Amended) ~~The liquid crystal display as defined in claim 1, wherein:~~
A liquid crystal display with two opposing substrates sandwiching therebetween a liquid crystal layer variable in thickness either within a single pixel or from one pixel to another, said display comprising:

a plurality of columnar spacers between the two substrates where the liquid crystal layer is thinnest, the columnar spacers being elongated in a direction connecting the two substrates to maintain a cell gap;

one of the two substrates being ~~is~~ provided with liquid crystal drive electrodes composed of reflection electrodes and transmission electrodes;

an interlayer insulation layer being ~~is~~ provided on the substrate where the liquid crystal layer is thinnest; and

the reflection electrodes being ~~are~~ provided on the interlayer insulation layer.

3. (Original) The liquid crystal display as defined in claim 2, wherein the reflection electrodes have a surface composed of an undulating part where incident light is scattered and a flat part which the columnar spacers contact.

4. (Original) The liquid crystal display as defined in claim 2, wherein

the liquid crystal layer has the largest thickness equal to a sum of a height of the columnar spacers and a thickness of the interlayer insulation layer.

5. (Currently Amended) The liquid crystal display as defined in claim 24, wherein:

there are provided a color filter layer and a black matrix layer on one of the two substrates; and

the columnar spacers are provided on the black matrix layer.

6. (Original) The liquid crystal display as defined in claim 5, wherein the columnar spacers are provided on blue filters in the color filter layer.

7. (Original) The liquid crystal display as defined in claim 5, wherein the black matrix layer has apertures in which the columnar spacers are provided.

8. (Original) The liquid crystal display as defined in claim 5, wherein the columnar spacers are black.

9. (Currently Amended) The liquid crystal display as defined in claim 24, wherein the liquid crystal layer is made of a material exhibiting vertical alignment.

10. (Currently Amended) The liquid crystal display as defined in claim 24, wherein:

in a cross-section of a panel taken parallel to the two substrates, the columnar spacers account for 0.05 % to 3.0 % of the panel in area.

11. (Currently Amended) A manufacturing method of a liquid crystal display, comprising, in order, the following steps of:

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providing a transparent electrode on a substrate to drive liquid crystal;
providing columnar spacers on the transparent electrode; and
providing an alignment layer on the entire substrate.

12. (Currently Amended) A manufacturing method of a liquid crystal display, comprising the steps of:

providing a transparent electrode on a substrate to drive liquid crystal;
providing an alignment layer on the transparent electrode;
rubbing the alignment layer; ~~and~~
providing columnar spacers on the rubbed alignment layer; and
combining the first substrate and a second substrate that is provided with (i)
liquid crystal drive electrodes composed of reflection electrodes and transmission
electrodes and (ii) an interlayer insulation layer on which the reflection electrodes are
provided, so that the columnar spacers and the reflection electrodes are disposed
opposite each other.

13. (Original) A manufacturing method of a liquid crystal display, comprising the steps of:

providing a black matrix layer on a substrate;
providing a color filter layer;
providing apertures on the black matrix layer; and
providing columnar spacers in the apertures, using the apertures as a mask.

14. (Original) The manufacturing method of a liquid crystal display as defined in claim 13, wherein

the columnar spacers are provided in the apertures by applying a photosensitive black material and illuminating the material from a side where the color filter layer is not provided.

15. (New) A liquid crystal display with two opposing substrates sandwiching therebetween a liquid crystal layer variable in thickness either within a single pixel or from one pixel to another, wherein:

a reflection section that reflects incident light is provided where the thickness of the liquid crystal layer is small, while a transmission section that transmits incident light is provided where the thickness of the liquid crystal layer is different from the thickness of the liquid crystal layer in the reflections section; and

there are provided columnar spacers on the reflection section between the two substrates, the columnar spacers being elongated in a direction connecting the two substrates to maintain a cell gap.

16. (New) A manufacturing method of a liquid crystal display comprising:
providing a transparent electrode on a first substrate to drive liquid crystal;
providing columnar spacers on the transparent electrode;
providing an alignment layer on the entire first substrate, and
locating the first substrate and a second substrate, provided with a reflection
section that reflects incident light and a transmission section that transmits incident light,
to be disposed opposite each other, so that the columnar spacers on the first substrate
come in contact with the reflection section on the second substrate.

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17. (New) A manufacturing method of a liquid crystal display comprising:
providing a transparent electrode on a first substrate to drive liquid crystal;
providing an alignment layer on the transparent electrode;
rubbing the alignment layer;
providing columnar spacers on the rubbed alignment layer, and
locating the first substrate and a second substrate, provided with a reflection
section that reflects incident light and a transmission section that transmits incident light,
to be disposed opposite each other, so that the columnar spacers on the first substrate
come in contact with the reflection section on the second substrate.

18. (New) The liquid crystal display as defined in claim 5, wherein
the columnar spacers are provided on the black matrix layer so that a distance
from an edge of the black matrix layer is longer than an extension of alignment defects
that occur in proximity to the columnar spacers.

19. (New) The liquid crystal display as defined in claim 5, wherein
a height of the columnar spacers is set so that a distance from an edge of the
black matrix layer is longer than an extension of alignment defects that occur in
proximity to the columnar spacers.

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20. (New) The liquid crystal display as defined in claim 5, wherein
the black matrix layer is subjected to a rubbing treatment; and
a length of the black matrix layer in a direction of the rubbing treatment is longer
than an extension of alignment defects that occur in proximity to the columnar spacers.

21. (New) The liquid crystal display as defined in claim 20, wherein
the black matrix layer conceals not more than 20 μm from the columnar spacers
toward an end point of the rubbing.
